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(21) International Application Number: PCT/AU00/00249 (22) International Filing Date: 24 March 2000 (24.03.00) (30) Priority Data: PP 9463 26 March 1999 (26.03.99) AU (71) Applicant (for all designated States except US): JOHNSON & JOHNSON RESEARCH PTY. LIMITED [AU/AU]; Australian Technology Park Level 4, 1 Central Avenue, Eveleigh, NSW 1430 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): KUTCHAN, Toni, Mary [DE/DE]; (DE). ZENK, Meinhart, Hans [DE/DE]; Pfeiveftilstrasse 17, D-81243 Munich (DE). ATKINS, David, George [AU/AU]; 82 Womerah Avenue, Darlinghurst, NSW 2010 (AU). FIST, Anthony, John [AU/AU]; 36 Beech Road, Norwood, TAS 7250 (AU). (74) Agent: BALDWIN SHELSTON WATERS; 60 Margaret Street, Sydney, NSW 2000 (AU).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: CODEINONE REDUCTASE FROM ALKALOID POPPY (57) Abstract <p>The present invention concerns codeinone reductase from alkaloid poppy plants, the polynucleotides encoding the enzyme, transgenic plants transformed or transfected with polynucleotide(s) encoding codeinone reductase and to the production of alkaloids from transformed or transfected poppy plants.</p>		

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